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### State of California AIR RESOURCES BOARD

## **EXECUTIVE ORDER A-10-673**

Relating to Certification of New Medium-Duty Motor Vehicle Engines

#### FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 model-year Ford Motor Company Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Gasoline

Engine Family		Displacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
TFM7.5W8G1CK	7.5	(460)	Secondary Air Injection Dual Heated Oxygen Sensors Heated Oxygen Sensor Exhaust Gas Recirculation Three Way Catalytic Converter Sequential Multiport Fuel Injection

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Non-Methane Hydrocarbons + Nitrogen Oxides		Carbon <u>Monoxide</u>
3.9	-	14.4

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Engine Family	Non-Methane Hydrocarbons + Nitrogen Oxides	Carbon <u>Monoxide</u>
TFM7.5W8G1CK	2.8	8.4

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicle engines set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this

2 day of July 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: Ford Motor Company

Engine Family: <u>TFM7.5W8G1CK (T7.5B)</u>

Evaporative Family: TFM1090AYC0D

Engine Type: V-8

Liters (CID): 7.5L (460)

#### ABBREVIATIONS:

**Exhaust Emissions Control System** Ignition System

**DLI-Distributorless** AIR-Secondary Air Injection

**ECTS-Engine Coolant Temp Sensor** Ignition El-Electronic Ignition **EGR-Exhaust Gas Recirculation** 

PCM-Powertrain Control **EM-Engine Modification** Module

HO2S-Heated Oxygen Sensor

KS-Knock Sensor MAP-Manifold Absolute Pressure Sensor **OC-Oxidation Catalyst** Q2S-Oxygen Sensor

SABV-Secondary Air Bypass Valve Special Features

SASV-Secondary Air Switching Valve

SPL-Smoke Puff Limiter MIL-Malfunction TOC-Trap Oxidizer: Continuous Indicator Light

TOP-Trap Oxidizer: Periodic OBD-On Board TPS-Throttle Position Sensor Diagnostics TWC-Three Way Catalyst TWC+OC-Three Way Catalyst

Plus Oxidation Catalyst WUOC-Warm Up Oxidation Catalyst WUTWC-Warm Up Three Way Catalyst

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Injection **CARB-** Carburetted Fuel System

**DI-Direct Injection** (Diesel)

EIC-Electronic Injection Control (Diesel)

IC-Intercooler or Aftercooler **IDI-Indirect Diesel** Injection

MPI-Multipoint Electronic

Fuel Injection SC-Supercharged SMPI-Sequential Multipoint Electronic Fuel Injection

TAA-Turbocharged, Air to Air (Diesel) TAW-Turbocharged, Air to Air to Water (Diesel)

TBI-Throttle Body **Electronic Fuel** 

VEHICLE MODELS: E250/E350/F250/F350/Strip Chassis or Cutaway

Engine: Front XXX Mid \_\_ Rear

Drive: FWD \_\_ RWD XXX 4WD Full Time \_\_ 4WD Part Time \_\_

Engine Family: T7.5B

MAY 2-7 1995

Issue Date: Revised:

# 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET INCOMPLETE MEDIUM-DUTY VEHICLE ENGINES CERTIFIED USING HEAVY-DUTY OTTO ENGINE TEST PROCEDURES

	Manufacturer Force	Motor Compar	<u>ny</u> E	ingine Family _	TFM7.5W8G	1CK (T7.5B)			
	Displacement:	7,5	_Liters	<del></del>	460	Cubic Inches			
	Maximum Rated Po	wer: <u>245</u> H	P@ <u>4000</u>	RPM Er	ngine Configu	ration: V-8			
	Cert Std: Tier-0	Tier-1X_LEV_	_ ULEV En	gine Intended S	Service Class:	M4 <u>X</u> M5			
	Fuel Type(s):	Dedicated X F	Flex-Fuel Dua	al-Fuel	Gasoline	M100			
	CNG LNG LPG Other (specify)								
	Exhaust ECS (e.g., MFI,TC,CAC, etc.) AIR/EGR/HO2S/SFI/TWC(REDOX) /2HO2S (Use abbreviations per SAE J1930 SEP91)								
			(000 000			,			
	Engine Model (Engine Code)	Rated HP @ RPM	Ign. System or PCM	Fuel System Injtr	EGR Valve	Catalyst			
			Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No. -5E212-			
	6-97P-R00	245 @ 4000	F6TF-AFA	F1TE-DA	F6TE-CA	F6TA-BB (E-Series) F6TA-HC (F-Series)			
	6-98P-R00	245 @ 4000	F6TF-ALA	•	•				
	6-98R-R00	245 @ 4000	F6UF-SA	•	•	•			
	6-98T-R00	245 @ 4000	F6TF-ANA	•	•	:			

Comments: See 20.17.02.00-1 for abbreviations and 20.17.02.00-4 for evaporative emission family identification.

Engine Family: T7.58

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Issue Date: Revised: MAY 27 1995